



SOVEREIGN

POWERED GARDEN ENGINEERING

Operating Instructions Hedge Trimmer

**WARNING! PLEASE READ THESE INSTRUCTIONS
BEFORE OPERATING THIS UNIT**

KEEP THIS MANUAL FOR FUTURE REFERENCE





Read and follow the operating instructions and safety information before using for the first time.



Always wear PPE (Personal Protective Equipment).



Wear eye protection!



Wear Ear Protection!



Beware of electrical voltage



Read the complete operating manual with due care and keep it in a safe place. If you give the unit to any other person, hand over this operating manual as well!

Safety Instructions Hedge Trimmer

**WARNING! PLEASE READ THESE INSTRUCTIONS
BEFORE OPERATING THIS UNIT**

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EH-Art.-No.: 34.038.44
I.-Nr: 11010

HS-PT 22

Safety information:

1. This machine can cause serious injuries. Read the instructions for use carefully to discover how to use it correctly:
 - preparation
 - maintenance
 - starting and stopping the machine

Make yourself familiar with all the adjusters on the machine and how to use it properly.

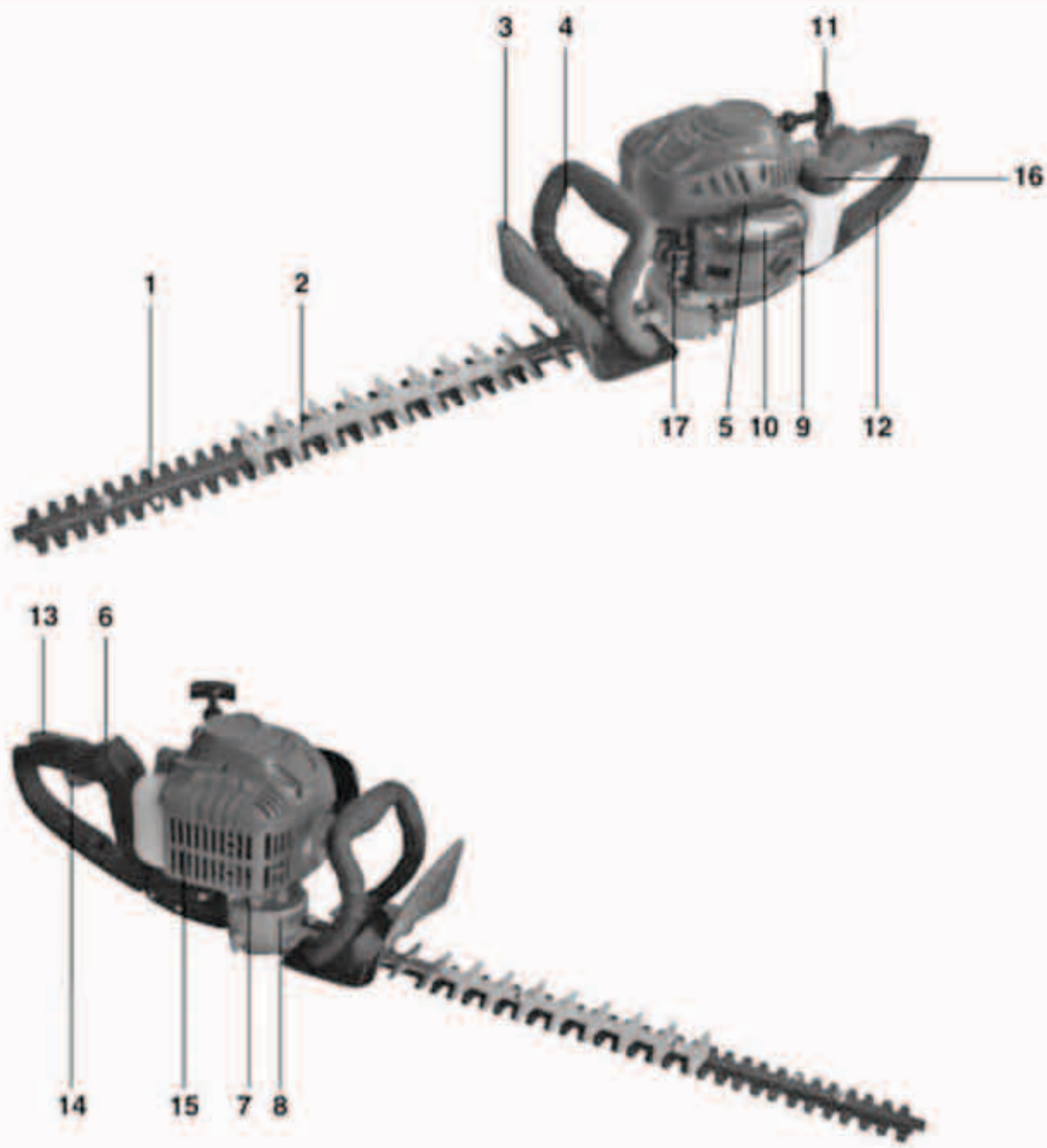
2. Children must never be allowed to use the hedge trimmer.
3. Take care near overhead power cables.
4. Do not use the hedge trimmer when people (particularly children) or animals are nearby.
5. Wear suitable clothing. Do not wear loose clothing or jewelry as it may get caught in moving parts. We recommend that you wear strong gloves, non-slip shoes and safety goggles.
6. Stop the engine or pull the mains plug out before the following:
 - Cleaning or removing a blockage
 - Inspection, maintenance or other work on the machine
 - Adjusting the working position of the cutter.
7. If the angles of the cutter and/or the length of the shaft can be adjusted on the hedge trimmer, do not hold the blades when adjusting the working position of the cutter. Always make sure that the cutter is in the correct working position before you start the engine or connect the plug to the mains supply.

8. Always stand in a safe position whilst using the machine, particularly if you are using steps or a ladder.
9. Handle fuel with care, it is highly inflammable. Never place fuel in a machine whose engine is running or hot. Do not inhale fuel vapors, they are toxic.
10. Do not carry out any repair work on the machine unless you have been trained to do so.
11. Do not use the machine if it has a damaged or excessively worn cutter.
12. To reduce the risk of fire ensure that the engine and silencer are clear of deposits, leaves and lubricants.
13. The machine may exceed 85 db (A) at the workplace. The operator will require noise protection measures and ear muffs if this is the case.
14. Always make sure that all the handles and safety equipment are fitted whilst you are using the machine. Never attempt to use an incomplete machine or one that has been modified illegally.
15. Always use both hands if the hedge trimmer is fitted with more than one handle.
16. Always place the cover over the cutter when transporting or storing the machine.
17. **Important!** This hedge trimmer is suitable for cutting hedges, bushes and shrubs. Any use which is not expressly permitted in the manual may result in damage to the hedge trimmer and place the user in serious danger.
18. If it becomes necessary to stop the machine immediately, set the ON/OFF switch to "Stop" or "0"
19. Make yourself familiar with your surroundings and watch for possible dangers that you may not be able to hear due to the noise generated by the machine.

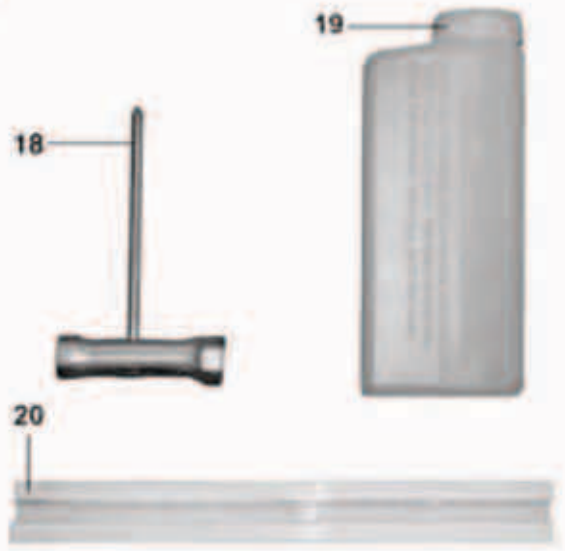
Additional safety instructions

1. Store the machine in a safe place. Carefully open the fuel tank cap beforehand to release any pressure that may have built up in the tank.
2. Start the machine at least 3 m away from the refueling site to avoid the possible risk of fire.
3. Keep the handles dry, clean and free from the fuel mixture, oil and grease.
4. Do not use any fuel other than that recommended in the instructions for use. Always follow the instructions in the section entitled "Fuel and oil". Never use pure petrol, always use the specified petrol and oil mixture. Otherwise the machine would suffer permanent damage and the manufacturer's warranty would be voided.
5. Do not smoke whilst refueling or working with the machine.
6. Do not use the machine without the silencer and/or screen for the silencer.
7. Never touch the silencer after you have used the machine. Leave the machine to cool down for a while before carrying out maintenance or adjustment work.
8. Do not use the hedge trimmer near inflammable liquids or gases. This could result in an explosion and/or fire.
9. Switch the machine off before you place it on the ground.
10. Check all screws and seals at regular intervals to ensure that they are tight and tighten them if necessary. Never use the machine if it has not been properly adjusted or has not been fully or safely assembled.
11. Always clear items such as bottles, stones, etc. away from where you are working. Catapulted items may cause serious injuries to the user or people and animals nearby and may also damage the machine. If you strike an item by accident, switch off the machine immediately and check it. Never work with a damaged or broken machine.
12. Do not modify, remove or add any things to any components of this machine. This could cause injuries or damage to the machine and void the manufacturer's warranty.
13. Do not use the machine when you are tired or for lengthy periods without breaks.
14. Do not use the machine if you have consumed alcohol, drugs or strong medication.
15. Always hold the machine with both hands so that your fingers and thumbs are hooked around the handles.
16. Only use the machine outdoors. Exhaust fumes are toxic.

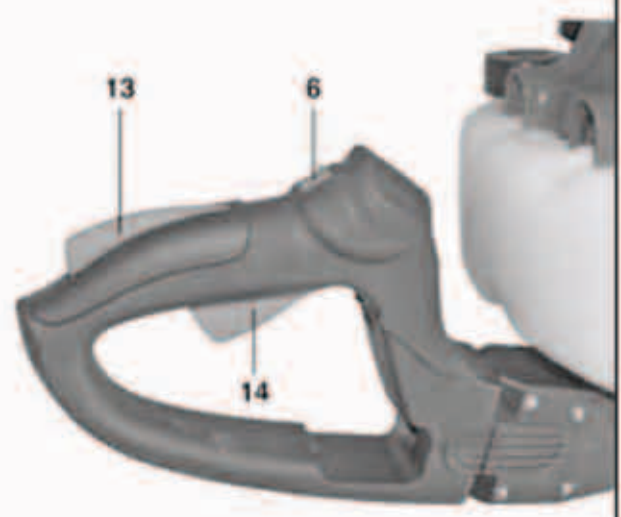
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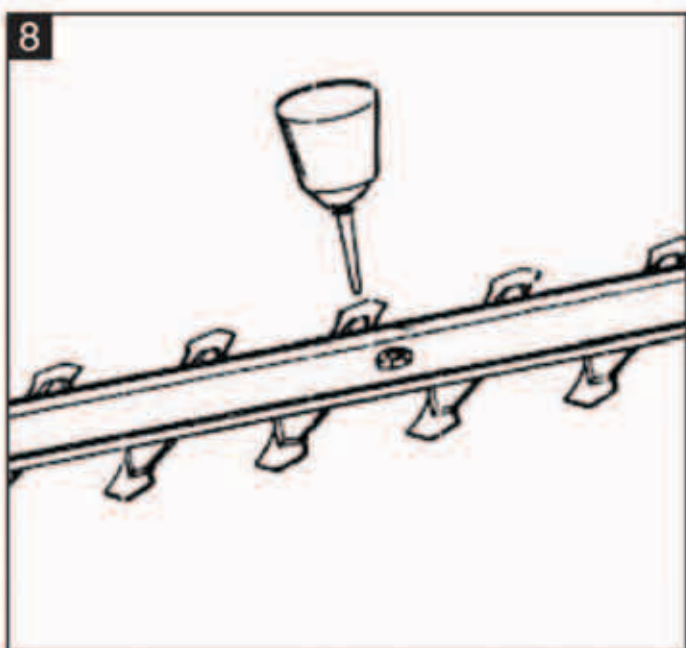
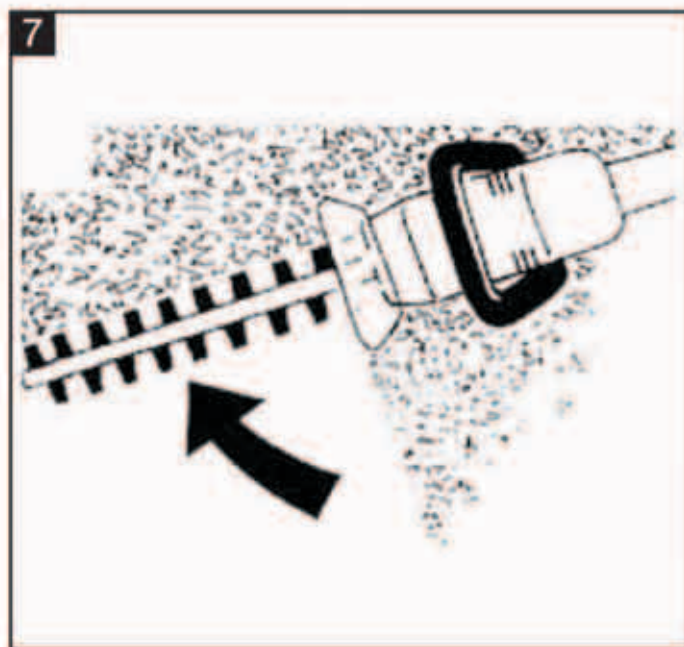
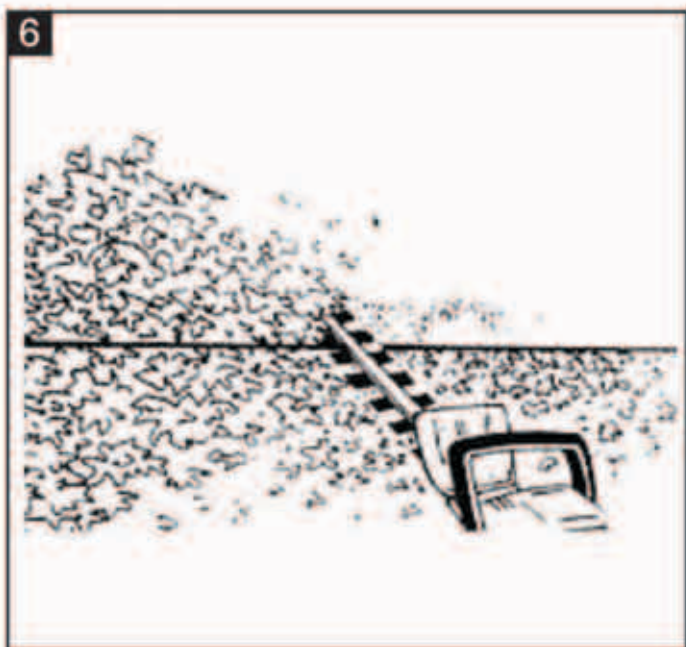
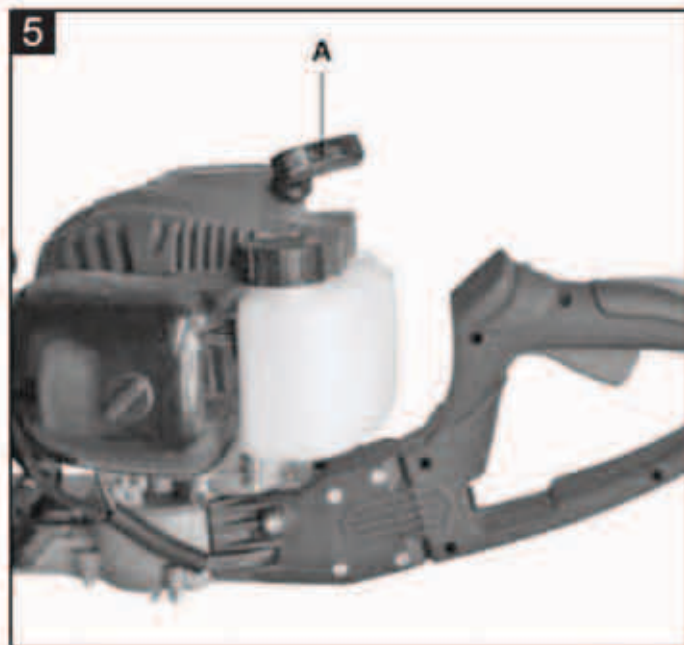
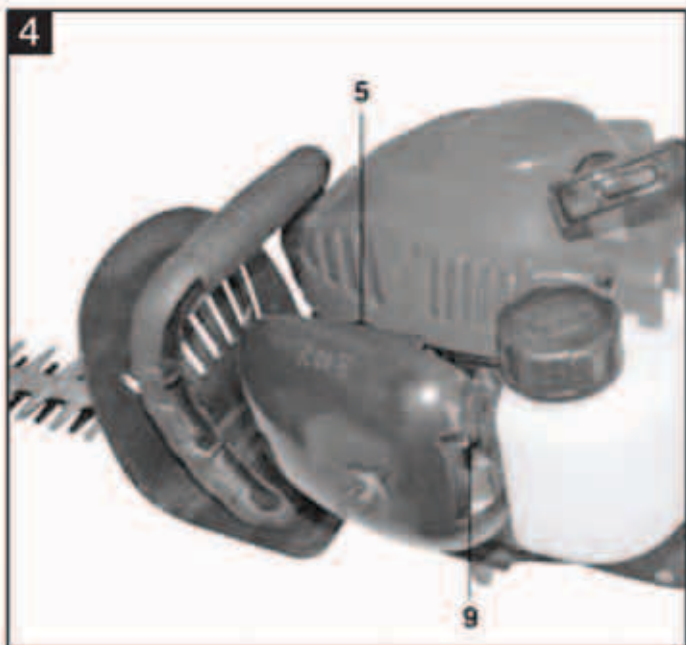


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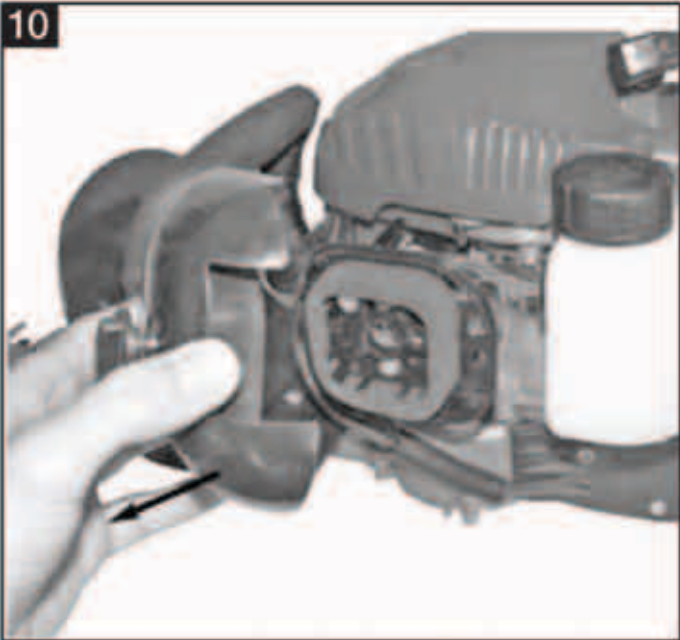


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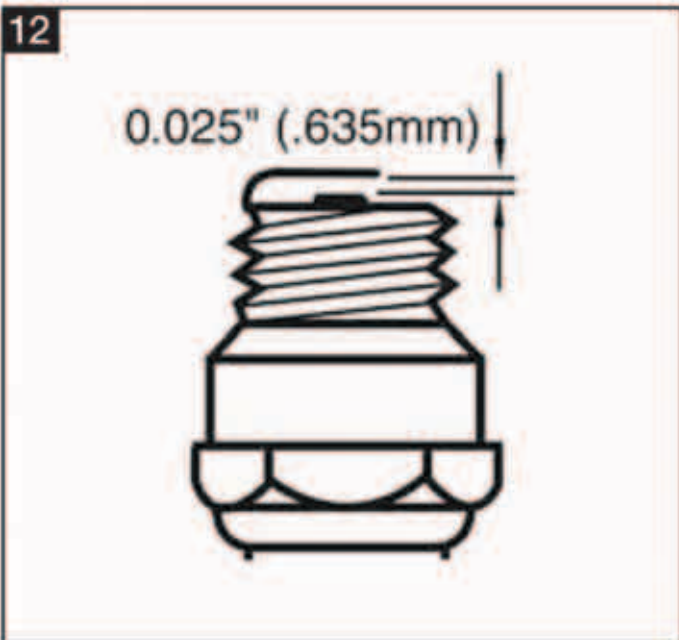
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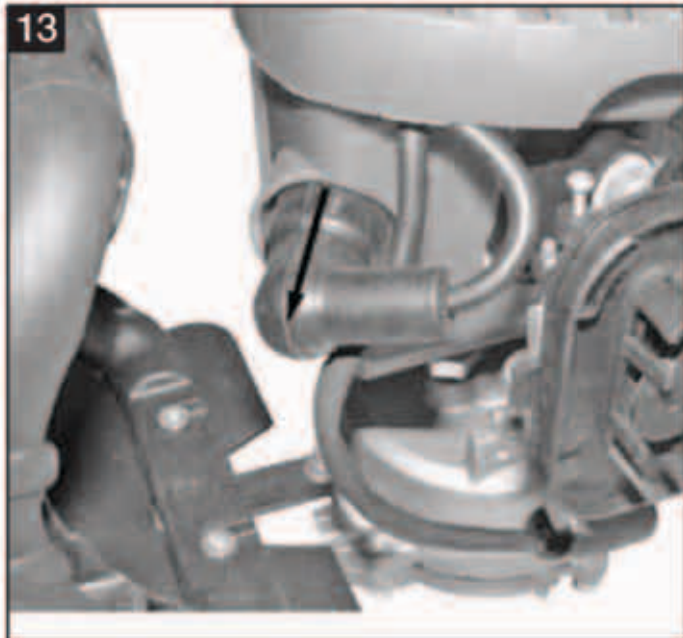
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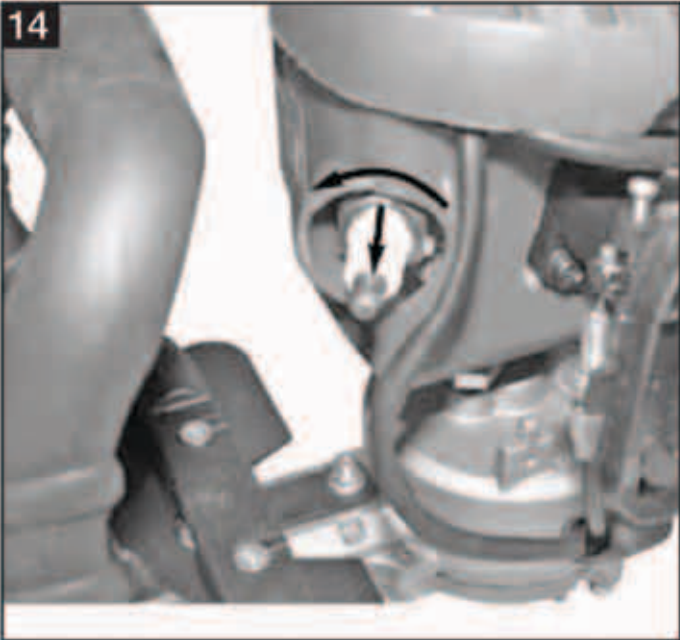
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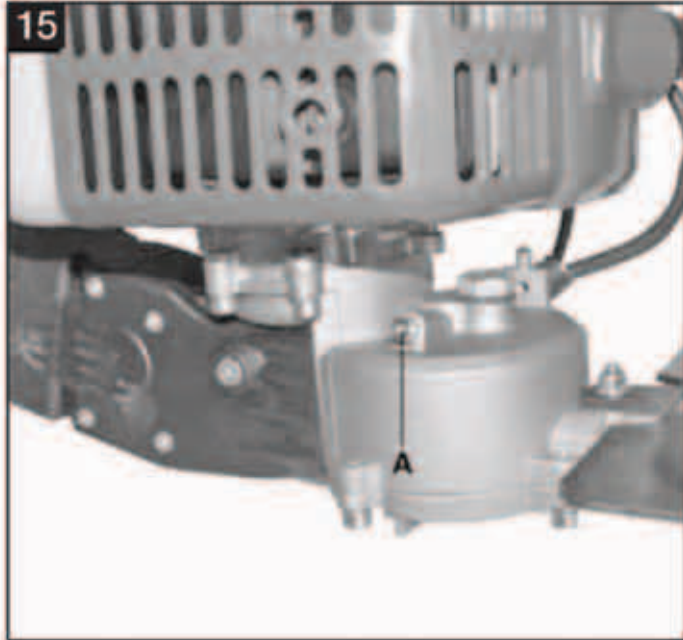
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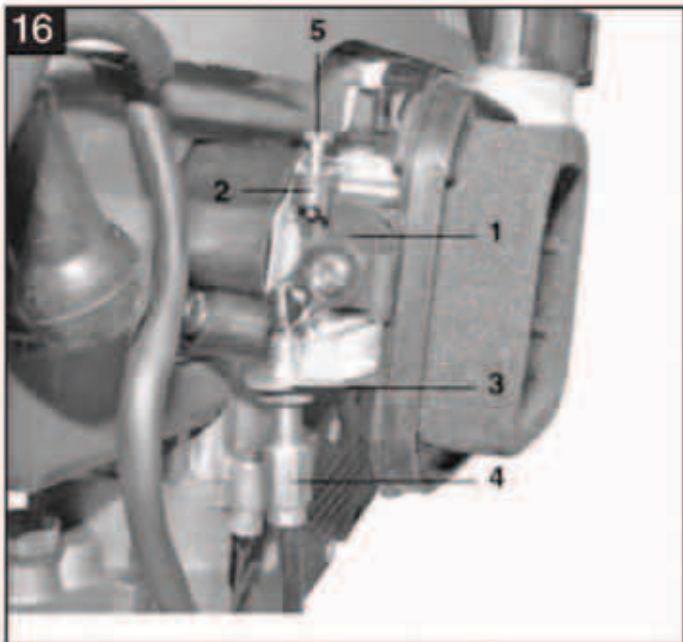


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Important!

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

1. Safety regulations

The corresponding safety information can be found in the beginning of the booklet.

CAUTION!

Read all safety regulations and instructions.

Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

Keep all safety regulations and instructions in a safe place for future use.

Explanation of the warning signs on the equipment (see Fig. 17)

1. Warning!
2. Read the directions for use before operating the equipment.
3. Do not expose the hedge trimmer to rain or wet conditions.
4. Wear eye protection and ear plugs.
5. Wear safety gloves.
6. Wear sturdy, non-slip footwear.
7. Caution: Sharp blades! Always keep hands and feet away from the blades.
8. Operate and start the equipment only outdoors in well ventilated areas to reduce the danger of injury from toxic gases.
9. Explosive material.
10. Very hot surface. Do not touch the hot exhaust silencer, gearbox or cylinder. You may burn yourself. These parts have become very hot during operation and remain very hot over a long period even after the equipment has been switched off.
11. Maintain a distance of at least 15 m from other persons.

2. Layout and items supplied (Fig. 1-2)

1. Cutting blade
2. Cutting blade safety cover
3. Safety guard
4. Front handle
5. Choke lever
6. ON/OFF switch
7. Lubrication nipple
8. Gears
9. Fuel pump (primer)
10. Air filter cover
11. Starter handle
12. Rear handle

13. Throttle lever "release"
14. Throttle lever
15. Silencer cover
16. Tank for fuel mixture
17. Spark plug boot
18. Spark plug wrench
19. Oil/ Petrol mixing bottle
20. Cutter rail cover

3. Proper use

Important. This hedge trimmer is suitable for cutting hedges, bushes and shrubs.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the equipment is used in commercial, trade or industrial businesses or for equivalent purposes.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

4. Technical data

Engine type: 2-stroke engine, air-cooled, chrome cylinder

Engine output (max.): 0.65 kW / 0.9 hp

Displacement: 22 cc

Idle speed of engine: 2850 min⁻¹

Max. engine speed: 8500 min⁻¹

Weight (with empty tank): 5.6 kg

Cutting length: 50 cm

Tooth spacing: 28 mm

Vibration (front handle) a_{hv} 7.63 m/s²

Vibration (rear handle) a_{rv} 5.01 m/s²

Sound pressure level L_{pA} 95 dB

Sound power level L_{WA} 106 dB

Sound and vibration were measured in accordance with 2000/14/EC.

5. Before starting the machine

5.1 Fuel and oil

Recommended fuels

Use only a mixture of normal unleaded petrol and special 2-stroke engine oil. Mix the fuel mixture as indicated on the fuel mixing table.

Please note: Do not use a fuel mixture which has been kept for longer than 90 days.

Please note: Do not use 2-stroke oil with a recommended mixing ratio of 100:1. If inadequate lubrication causes engine damage, the manufacturer's engine warranty will be voided.

Please note: Only use containers designed and approved for the purpose to transport and store fuel.

Pour the correct quantities of petrol and 2-stroke oil into the mixing bottle (see scale printed on the bottle). Then shake the bottle well.

5.2 Fuel mixture table

Mixing procedure: 40 parts petrol to 1 part oil

Petrol	2-stroke oil
1 litres	25 ml
5 litres	125 ml

6. Operation

Please note that the statutory regulations governing noise abatement may differ in different regions.

6.1 Starting the engine from cold (Fig. 3-5)

Fill the tank with the required amount of oil/petrol mix.

1. Set the machine down on a hard, level surface.
2. Set the choke lever (Fig. 4/Item 5) to on "I".
3. Press the fuel pump (primer) (Fig. 4/Item 9) 10 times.
4. Set the throttle lever to full throttle. To do so, press the throttle lock (Fig. 3/Item 13).
5. With the other hand pull out the starter cable (Fig. 5/Item A) until you feel it starts to resist. Now pull the starter cable rapidly 4 times.

Important: Never allow the starter cable to snap back. This may damage the equipment.

6. Move the ON/OFF switch (Fig. 3/Item 6) to on "I".
7. Pull the starter cable up to 6 more times.

Note: amount of choke will vary slightly. Depending on the external temperature. (Warm = Choke Off "I", Cold = Choke On "I")

8. If the engine has started, set the choke lever immediately to off "I" and allow the machine to warm up for approximately 10 seconds.
9. If the engine does not start up, repeat steps 7 - 8 above.

Please note: If the engine does not start up even after several attempts, read the section "Engine Troubleshooting".

Please note: Always pull the starter cable out in a straight line. If it is pulled out at an angle, then friction will occur on the eyelet. As a result of this friction, the cable will become frayed and will wear away faster.

6.2 Starting the engine when warm (if the machine has not been switched off for more than 15 – 20 minutes)

1. Set the machine down on a hard, level surface.
2. Switch the ON/OFF switch to "I".
3. Hold the machine by the front handle in your right hand and pull the starter cable up to the first resistance point (approx. 10 cm). Then tug sharply on the starter cable. The machine should start after 1-2 tugs. If the machine does not start after 6 pulls, repeat steps 1 – 8 of the procedure for starting the engine from cold.

6.3 Switching off the engine

Emergency Stop procedure:

If it becomes necessary to stop the machine immediately, set the ON/OFF switch to "Stop" or "0".

Normal procedure:

Let go of the throttle lever and wait until the engine has changed to idling speed. Then set the ON/OFF switch to "Stop" or "0".

6.4 Practical tips

Never allow the machine to run at low speed for starting or for cutting.

Cutting for dense growth: The most effective method is to use wide, sweeping movements, guiding the cutting edge of the blade straight through the branches. A slight incline of the blade downwards towards the movement will produce best cutting results.

It is recommended to tie a guide line of string or the like along the hedge so that you cut the hedge to a level height. The branches above it will be cut off. (Fig. 6)

Cutting the side of a hedge: Cut the sides of the hedge with curve-shaped movements from the bottom up. (Fig. 7)

Please note: As a result of its design, if you work with the machine on its side for a lengthy period and the tank not completely filled, the motor may stall.

7. Cleaning, maintenance, storage and ordering of spare parts

7.1 Cleaning

- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible. Wipe the equipment with a clean cloth or blow it with compressed air at low pressure.
- We recommend that you clean the device immediately each time you have finished using it.
- Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device.

7.2 Maintenance

Always switch off the hedge trimmer and remove the spark plug boot (Fig. 13) before carrying out any maintenance work.

1. The cutter blades are high quality, made of tempered steel and in normal use there is no need to sharpen the blades. If you accidentally strike a wire, stone, glass or other hard object, this may cause a notch in the blade. There is no need to remove the notch as long as it does not adversely affect the movement of the cutting edges. If it does adversely affect this movement, switch off the machine and use a fine file or a fine grinding stone to remove the notch. Ensure that the blade's cutting edge is always well oiled (see Fig. 8).
2. If you drop the hedge trimmer, check whether it has suffered any damage. If it is damaged contact the **customer service enquiries on 0151 649 1500**.
3. Only clean the machine after it has been switched off. Use only mild soap and a damp cloth to clean it. Never allow fluid to get into the machine. Do not use caustic cleaning products.

7.2.1 Maintenance of the air filter (Fig. 9-11)

Soiled air filters reduce the engine output by supplying too little air to the carburetor.

Regular checks are therefore essential. The air filter should be checked after every 25 hours of use and cleaned if necessary. If the air contains a lot of dust, the air filter should be checked more frequently.

1. Remove the air filter cover (Fig. 9-10)
2. Remove the filter element (Fig. 11)
3. Clean the filter element by tapping it or blowing it.
4. Assemble in reverse order.

Please note: Never clean the air filter with petrol or inflammable solvents. Clean the air filter with compressed air or by tapping it.

7.2.2 Maintenance of the spark plug (Fig. 12-14)

Spark plug gap = 0.025 inch (0.635 mm). Tighten the spark plug with a torque of 12-15 Nm.

Check the spark plug for dirt and grime after 10 hours of operation and if necessary clean it with a copper wire brush. Thereafter service the spark plug after every 50 hours of operation.

1. Pull off the spark plug boot (Fig. 13) by twisting.
2. Remove the spark plug (Fig. 14) with the supplied spark plug wrench.
3. Assemble in reverse order.

7.2.3 Maintenance of the gearbox (Fig. 15)

The gearbox must be lubricated every year before the start of the season at the lubrication nipple (Fig. 15/Item A). Place a conventional grease gun on the nipple and press approx. 3 strokes of conventional machine grease into the gearbox. If you use the trimmer frequently, grease the gearbox more often.

7.2.4 Carburetor settings

Important. Settings on the carburetor may only be made by authorized customer service personnel. The air filter cover must be removed before any work on the carburetor, as shown in Figures 9 – 10.

Setting the throttle cable:

If the maximum speed of the machine falls over time and you have ruled out all the other causes listed in section 9 Troubleshooting, it may be necessary to adjust the throttle cable.

First of all check whether the carburetor opens fully when the throttle handle is pressed fully. This is the case if the carburetor slide (Fig. 16/Item 1) rests against the stop (Fig. 16/Item 2) when the throttle is fully open. Figure 16 shows the correct setting. If the carburetor slide does not touch the stop, it must be adjusted.

The following work is required to adjust the throttle cable:

- Undo the lock nut (Fig. 16/Item 3) a few turns.
- Undo the adjusting screw (Fig. 16/Item 4) until the carburetor slide rests against the stop when the throttle is fully open, as shown in Figure 16.
- Retighten the lock nut.

Setting the idling speed:

Important. Set the idling speed when the machine is warm.

If the engine stalls when the throttle is not pressed and you have ruled out all the other causes listed in section 9 Troubleshooting, the idling speed must be adjusted. To do this turn the idling speed screw (Fig. 16/Item 5) clockwise until the machine runs smoothly at idling speed.

If the idling speed is so fast that the cutting blades do not reach a standstill, the idling speed must be reduced by turning the idling speed screw (Fig. 16/Item 5) counterclockwise until the cutting blades stop.

7.3 Storage

Please note: If you fail to follow these instructions correctly, deposits may form on the interior of the carburetor which may result in the engine being more difficult to start or the machine suffering permanent damage.

1. Carry out all the maintenance work.
2. Drain the fuel out of the tank (use a conventional plastic petrol pump from a DIY store for this purpose).
3. When the fuel has been drained, start the engine.
4. Allow the engine to run at idling speed until it stops.
This will clean the remainder of the fuel out of the carburetor.
5. Leave the machine to cool (approx. 5 minutes).
6. Remove the spark plug (see point 7.2.2).
7. Place a teaspoon full of 2-stroke engine oil into the combustion chamber. Pull the starter cable several times carefully to wet the internal components with the oil. Fit the spark plug again.
8. Clean the exterior housing of the machine.
9. Store the machine in a cold, dry place where it is out of the reach of ignition sources and inflammable substances.

Fertilizers and other chemical garden products often contain substances that accelerate the rate of corrosion of metals. Do not store the machine on or near fertilizers or other chemicals.

Restarting

1. Remove the spark plug.
2. Pull the starter cable several times to clean the oil residue out of the combustion chamber.
3. Clean the spark plug contacts or fit a new spark plug.
4. Fill the tank. See the section entitled Fuel and oil.
5. Complete steps 1-8 described under the point (6.2) entitled "Starting the engine from cold".

7.4 Ordering replacement parts

Please quote the following data when ordering replacement parts:

- Type of machine HS-PHT 22
- Article number of the machine 34.038.44
- Identification number of the machine 11010
- Replacement part number of the part required

For our latest prices and information please go to www.einhell-uk.co.uk.

8. Disposal and recycling

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system for recycling.

The unit and its accessories are made of various types of material, such as metal and plastic.

Defective components must be disposed of as special waste. Ask your dealer or your local council.

9. Troubleshooting

Problem	Cause	Solution
The machine does not start.	1. Correct starting procedure not followed.	1. Follow the instructions for starting.
	2. Sooted or damp spark plug	2. Clean the spark plug or replace it with a new one.
	3. Incorrect carburetor setting	3. Contact an authorized customer service outlet or contact 0151 649 1500.
The machine starts but does not develop its full output.	1. Incorrect choke lever setting	1. Set choke lever to I
	2. Soiled air filter	2. Clean the air filter
	3. Incorrect carburetor setting	3. Contact an authorized customer service outlet or contact 0151 649 1500.
The engine does not run smoothly	1. Incorrect electrode gap on the spark plug	1. Clean the spark plug and adjust the electrode gap or fit a new spark plug.
	2. Incorrect carburetor setting	2. Contact an authorized customer service outlet or contact 0151 649 1500.
Engine smokes excessively	1. Incorrect fuel mix	1. Use the correct fuel mix (see fuel mixing table)
	2. Incorrect carburetor setting	2. Contact an authorized customer service outlet or contact 0151 649 1500.

Please adhere to the following maintenance periods in order to ensure a failure-free operation.

Important! Fill in engine oil and fuel before starting up the product for the first time.

(2 Stroke)	Before each use	After an operating period of 20 hours	After an operating period of 50 hours	After an operating period of 100 hours	After an operating period of 300 hours
Check the air filter	X				Change the filter element if necessary
Clean the air filter			X		
Clean the petrol filter				X	
Visual inspection of the unit	X				
Clean the spark plug			Distance: 0.6mm, Replace if necessary		
Check and readjust the carburetor's throttle valve					X*
Clean the cylinder head					X*
Set the valve clearance					X*

Important: The positions marked with "X*" should only be carried out by an authorized dealer.



Declaration of Conformity

- ☐ erkl rt folgende Konformit t gem   EU-Richtlinie und Normen f r Artikel
☐ explains the following conformity according to EU directives and norms for the following product
☐ d clare la conformit  suivante selon la directive CE et les normes concernant l'article
☐ dichiara la seguente conformit  secondo la direttiva UE e le norme per l'articolo
☐ verklaart de volgende overeenstemming conform EU richtlijn en normen voor het product
☐ declara la siguiente conformidad a tenor de la directiva y normas de la UE para el art culo
☐ declara a seguinte conformidade, de acordo com a directiva CE e normas para o artigo
☐ attesterer f lgende overensstemmelse i medf r af EU-direktiv samt standarder for artikel
☐ f rklarar f ljande  verensst mmelse enl. EU-direktiv och standarder f r artikeln
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☐ следующим удостоверяется, что следующие продукты соответствуют директивам и нормам ЕС
☐ проголошує про зазначену нижче в дпов дн сть виробу директивам та стандартам ЄС на вир b
☐ ja izjavuva slednata soobraznost согласно EY-direktivata i normite za artikli
☐  r n  ile ilgili AB direktifleri ve normları gere ince a a ıda a ıklanan uygunlu u belirtir
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☐ L ysir uppfyllingu EU-reglna og annarra sta la v ru

Petrol Hedge Trimmer HS-PHT 22 (Sovereign)

- ☐ 2009/105/EC
☐ 2006/95/EC
☐ 2006/28/EC
☐ 2005/32/EC
☒ 2004/108/EC
☐ 2004/22/EC
☐ 1999/5/EC
☐ 97/23/EC
☐ 90/396/EC
☐ 89/686/EC_96/58/EC
☒ 2006/42/EC
☐ Annex IV
 Notified Body:
 Notified Body No.:
 Reg. No.:
☒ 2000/14/EC_2005/88/EC
☒ Annex V
☐ Annex VI
 Noise: measured $L_{WA} = 100,3$ dB (A); guaranteed $L_{WA} = 106$ dB (A)
 $P = 0,65$ kW; $L/D =$ cm
 Notified Body:
☒ 2004/26/EC
 Emission No.: e13*97/68SH2G3*2002/88*0603*00

Standard references: EN ISO 10517; EN ISO 14982

Landau/Isar, den 30.06.2010

Weichselgartner/General Manager

Frank/Product-Management

First CE: 10
 Art.-No.: 34.038.44 I.-No.: 11010
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 Documents registrar: Mayn Robert
 Wiesenweg 22, D-94405 Landau/Isar

PRODUCT GUARANTEE

This product is guaranteed against manufacturing defects for a period of



This product is guaranteed for twenty four months from the date of original purchase. Any defects that arises due to faulty materials or workmanship will either be replaced, refunded or repaired free of charge where possible during this period by the dealer from whom you purchased the unit.

The guarantee is subject to the following provisions:

- The guarantee does not cover accidental damage, misuse, cabinet parts, knobs or consumable items.
- The product must be correctly installed and operated in accordance with the instructions contained in this manual.
- It must be used solely for domestic purpose.
- The guarantee will be rendered invalided if the product is re-sold or has been damaged by inexpert repair.
- Specifications are subject to change without notice.
- The manufacture disclaims any liability for the incidental or consequential damages.
- The guarantee is in addition to, and does not diminish your statutory or legal rights.

Guarantor: Home Retail Group
AVEBURY MILTON KEYNES, MK9 2NW

For technical support and assistance or requests for spare parts and accessories
please contact 0151 649 1500 between the following hours:
Mon - Thursday 8.45am - 5.00pm Friday 8.45am - 3.15pm

Helpline No. UK 0151 649 1500 / IRE 189 094 6244

